

Section 09850
ACOUSTICAL WALL TREATMENT

PART 1 GENERAL

1.1 SUMMARY

- A. Section includes shop-fabricated, fabric wrapped, sound-absorbing wall panel units tested for acoustical performance

1.2 REFERENCES

- A. ASTM E 84 - Standard Test Method for Surface Burning Characteristics of Building Materials
- B. ASTM C 423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficient

1.3 SUBMITTALS

- A. Product Data:
 - 1. Manufacturer's data sheet on each product to be used
 - 2. Storage and handling requirements and recommendations
 - 3. Installation methods
- B. Samples: Submit for approval a 12"x12"x2" sample panel and mounting hardware
- C. Quality Assurance Testing: Submit test result from independent testing laboratory substantiating NRC and fire ratings

1.4 QUALITY ASSURANCE

- A. Fire-Test-Response Characteristics: Provide sound-absorbing wall units meeting the following as determined by testing identical products by UL or another testing and inspecting agency acceptable to authorities having jurisdiction:
 - 1. Surface-Burning Characteristics: As determined by testing per ASTM E 84
 - a. Flame-Spread Index: 25 or less
 - b. Smoke-Development Index: 30 or less

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store materials in manufacturer's unopened packaging until ready for installation
- B. Handle and install in accordance with manufacturer's instructions

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: ATS Acoustics, 15 W. Main St., Piper City, IL 60959, 1-(866) 787-7881, (www.atsacoustics.com)
- B. Requests for substitution will be considered in accordance with provisions of Section 09850

2.2 MATERIALS

- A. General
 - 1. ATS Acoustic Eco-Panel
 - 2. Acoustical Performance: Minimum NRC rating of 1.00 when tested in accordance with ASTM C 423
 - 3. Surface-Burning Characteristics: As determined by testing per ASTM E 84
 - c. Flame-Spread Index: 25 or less
 - d. Smoke-Development Index: 30 or less
 - 4. Recycled Material Content: Contains a minimum of 30% recycled material by weight
 - 5. Nominal Overall Panel Thickness: 2" (4" available)
- B. Construction: ECOSE Technology fiberglass panel with recycled HDPE internal frame and ¼" PureBond plywood back panel wrapped in selected fabric
 - 1. Core material: ECOSE fiberglass contains no phenol, formaldehyde, acrylics, or artificial colors, and features a minimum of 58% post consumer recycled material
 - 2. Frame and Backing:
 - a. HDPE plastic frame contains 90% pre-consumer recycled #2 HDPE
 - b. FSC certified plywood backing with formaldehyde free bonding technology
 - 3. Facing Material: Manufacturer's standard Jute Burlap, with non-toxic fire retardant to achieve required Flame Spread and Smoke Developed requirements – Additional fabric options available to include: ATS Microsuede, Guilford of Maine, Rose Brand, etc
 - a. Fabric from same dye lot; color and pattern as selected by Architect from manufacturer's color options
- C. Mounting Devices: Manufacturer's standard Z-clips or corner-mounting kit concealed on back of unit. Installed per manufacturer's instructions

2.3 FABRICATION

- A. Core-Face Layer: Evenly stretched over core face and edges and securely attached to core: free from puckers, ripples, wrinkles, or sags.
- B. Facing Material: Apply fabric facing fully covering visible surfaces of unit; with material stretched straight, on the grain, tight, square, and free from puckers, ripples, wrinkles, sags, blisters, seams, adhesive, or other visible distortions or foreign matter.
- C. Dimensional Tolerances of Finished Units: Plus or minus 1/8 inch.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install sound-absorbing wall units in locations indicated with vertical surfaces and edges plumb, top edges level and in alignment with other units, faces flush, and scribed to fit adjoining work accurately at borders and at penetrations.
- B. Comply with sound-absorbing wall unit manufacturer's written instructions for installation of units using type of mounting devices indicated. Mount units securely to supporting substrate.
- C. Align and level fabric pattern and grain among adjacent units.
- D. Clip loose threads, remove pills and extraneous material.
- E. Clean panels on completion of installation to remove dust and other foreign material according to manufacturer's written instructions.